

## Message Text

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ORIGIN NASA-02

INFO OCT-01 EUR-12 ISO-00 OES-05 CIAE-00 INR-07 NSAE-00

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FM SECSTATE WASHDC

TO AMEMBASSY ATHENS PRIORITY

INFO AMEMBASSY BONN PRIORITY

AMEMBASSY COPENHAGEN PRIORITY

AMEMBASSY LONDON PRIORITY

AMEMBASSY OTTAWA PRIORITY

AMEMBASSY PARIS PRIORITY

AMEMBASSY REYKJAVIK PRIORITY

AMEMBASSY ROME PRIORITY

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E.O. 11652: N/A

TAGS: TSPA; OCLR

SUBJECT: REQUEST FOR STAGING/OVERFLIGHT RIGHTS FOR NASA  
LEAR JET

REF: ATHENS 1498 (NOTAL)

1. FOLLOWING IS ANSWER TO YOUR QUESTIONS:

A. PHRASE QUOTE COUPLING BETWEEN EARTH'S MAGNETOSPHERE  
AND IONOSPHERE UNQUOTE MEANS THE ELECTRICAL, MAGNETIC,  
AND PARTICULAR CONNECTIONS AND INTERACTIONS BETWEEN IONOS-  
PHERE WHICH IS EARTH'S OUTER ATMOSPHERE AT 50-100KM AND  
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MAGNETOSPHERE WHICH IS REGION CONTAINING EARTH'S MAGNETIC

FIELD AND EXTENDING OUT TO 50-100 EARTH RADII (ABOUT 650 THOUSAND TO 12 MILLION KM). BY MEANS OF THIS COUPLING, A MECHANISM THAT IS NOW IMPERFECTLY UNDERSTOOD, ELECTRONS AND PROTONS FROM THE SUN ENTER FIRST THE MAGNETOSPHERE AND THEN IONOSPHERE. MAGNETIC STORMS AND AURORAS ARE PRODUCED AND THE IONOSPHERE MAY BE DISTURBED WITH SUBSEQUENT DISRUPTION OF WORLD-WIDE RADIO COMMUNICATIONS. THERE MAY BE OTHER IMPORTANT ENVIRONMENTAL EFFECTS.

B. NASA IS STUDYING THIS COUPLING EFFECT AS PART OF GENERAL PROGRAM TO STUDY PROPERTIES OF OUTER SPACE AND SOLAR SYSTEM PARTICULARLY, IN THIS INSTANCE, TO STUDY THE EXCHANGE OF ENERGY AND PARTICLES BETWEEN THE SUN'S ATMOSPHERE AND THE EARTH'S ATMOSPHERE.

C. RESULTS WILL BE USEFUL FOR INTERNATIONAL SCIENTIFIC COMMUNITY OF PHYSICISTS, GEOPHYSICISTS AND SPACE SCIENTISTS. LONG RANGE RESULTS INVOLVE BETTER UNDERSTANDING OF VARIOUS WAYS IN WHICH ENERGY IS OBTAINED FROM THE SUN AND HOW THE INPUT OF SOLAR ENERGY AFFECTS THE EARTH'S ATMOSPHERE. MAX PLANCK INSTITUT FUR PHYSIK UND ASTROPHYSIK IS COORDINATING THE WHOLE PROJECT. INSTRUMENTATION ABOARD THE ROCKETS WILL BE SUPPLIED BY SCIENTISTS FROM ESTEC (EUROPEAN SPACE AGENCY RESEARCH CENTER IN NOORDWIJK), FRANCE, AUSTRIA AND UNIVERSITY OF CALIFORNIA AT BERKELEY. UNIVERSITY OF ALASKA IS WORKING WITH NASA/AMES ON THE AIRBORNE STUDIES.

D. DATA RESULTS WILL BE PUBLISHED IN SCIENTIFIC JOURNALS OF EUROPE AND U.S.

E. AIRCRAFT WILL HAVE FOUR PERSONS ON BOARD EACH FLIGHT, TWO PILOTS AND TWO EXPERIMENTERS.

F. BECAUSE OF SPACE REQUIRED FOR EQUIPMENT, IT IS NOT POSSIBLE TO ACCOMMODATE GREEK OBSERVER DURING DATA MISSIONS. AIRCRAFT WILL, HOWEVER, AS NOTED BEFORE, BE OPEN FOR INSPECTION ON GROUND. (FYI: NASA INVESTIGATING POSSIBILITY OF ACCOMMODATING OBSERVER DURING REHEARSAL FLIGHT IN PLACE OF ONE EXPERIMENTER BUT THERE IS UNCLASSIFIED

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SOME PROBLEM RE LIABILITY. WILL INFORM SEPTTEL. END FYI)

2. WE APPRECIATE PROBLEMS EMBASSY HAS HAD WITH THIS REQUEST BUT WOULD LIKE POST'S BEST ESTIMATE OF LIKELIHOOD OF CLEARANCE AND WHEN IT MAY BE EXPECTED. NASA NEEDS TO SEND SOME AIRCRAFT SPARE PARTS AND PROJECT MUST STILL MAKE COMMUNICATIONS ARRANGEMENTS BETWEEN LAUNCH RANGE AND STAGING BASE.

3. FRANK SCHRODER OF NORTHROP SERVICES INC. WILL ACT  
FOR NASA AS ADVANCE MAN FOR LOGISTICS ARRANGEMENTS.  
HE WOULD LIKE TO LEAVE ASAP. PLEASE SUPPLY NAME IN  
EMBASSY WHOM HE MAY CONTACT. INGERSOLL

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## Message Attributes

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**Secure:** OPEN  
**Status:** NATIVE  
**Subject:** REQUEST FOR STAGING/OVERFLIGHT RIGHTS FOR NASA LEAR JET  
**TAGS:** TSPA, OCLR, GR, NASA  
**To:** ATHENS  
**Type:** TE  
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